

Claim Listing

17. (Previously Presented) A system for providing a plurality of videos for simultaneous display, said system comprising:

a video decoder for decompressing a plurality of compressed video streams, thereby resulting in a plurality of decompressed video streams, wherein each of said decompressed video streams comprises a plurality of pictures; and

a register for indicating a past prediction picture, and a future prediction picture for each of the plurality of compressed video streams.

18. (Previously Presented) The system of claim 17, wherein the video decoder motion compensates motion estimated pictures in each of the plurality of compressed video streams using at least the past prediction pictures indicated by said register for each of the plurality of compressed video streams.

19. (Previously Presented) The system of claim 17, wherein said register indicates a picture for display for each of the plurality of compressed video streams, and further comprising:

a display engine for providing an output, said output concatenating the pictures for display for each of the plurality of compressed video streams indicated by the register.

20. (New) The system of claim 17, wherein a single video decoder decompresses the plurality of compressed video streams, thereby resulting in the plurality of decompressed video streams, wherein each of said decompressed video streams comprises the plurality of pictures.

21. (New) The system of claim 19, wherein the display engine examines the register, selects the pictures indicated by the register for display, and concatenates the pictures indicated for display by the register.

22. (New) The system of claim 21, wherein the display engine requests the pictures indicated by the register for display, from a frame buffer.